MATION

The Oldest American Aeronautical Magazine

DECEMBER 15, 1924

Issued Weekly

PRICE 10 CENTS



AOLUME

SPECIAL FEATURES

NUMBER 24

ANALYSIS OF THE 1926 BUDGET
NEW AMERICAN AND FOREIGN AIRPLANES
ANNUAL REPORT OF THE CHIEF OF AIR SERVICE
C. G. GREY'S POST-IMPRESSIONS OF AMERICAN AVIATION

GARDNER PUBLISHING CO., INC.
HIGHAND, N.
225 FOURTH AVENUE. NEW YORK
Geometichem Market, Str. 33, 1900, at the York Office at Highland, N. Y.
minder act of March. 3, 1979.

3 Elemeters-3659 mail: No. 4, 1925, Lt. A. J. Willem, U.S.N. Curtis-Resy. Recor and Curtis B12A Engine Max. Danafon-36 In. 4 on 34 or April 16, 1917. Lt. O C Kelly sel Lt 1. A Manuals, USA 100 Kilometers-24581 mail: Oct 6, 1903, 12 A. I. Williams. U.S.N., Cardas-Neuv. Boose, and Cardon 2012A. Engine 200 Kilometers Triangular Course-2016 mails Octobe 5, 1923, Lt. A. J. Wilson, U.S.N., Contan-Nacy Racer and Contan DOSA Engine

280 Kilometers Triumpular Course - 177 27 m.c.). Ondor 21, 1974, 12, R. A. Onto, U.S.V., Cardia-New Raper and Cartin 192A Engine 998 Kilometers-176-52 mg/s Oct 25, 1924, Lt. R. A. Obris, U.S.N., Carrias-Nooy Reser and Carties 592A Engine Max. Dorafor-30 in 36 no On 18, 1834, In. West sel Proc. USN. Corfee C22 Seasons 3 Kilometers. 1976; u.s.). Oct 25, 1904. Lt C. Collife, U.S.N., Cartin-Rese Secur and Cortin 0524 Environ

CURTISS AEROPLANE & MOTOR COMPANY, INC.

CARREN CITY N Y

DECEMBER 15, 1924

- Vador Killed Incorrection of Asserbes Aviation 1.

a Aire a Greenage

foctors Method of Cleaning Engine Od . . .

Becoury Apparetm for 28 3

CONTENTS

The Colour-Pick "Conducte" Towner Plans Reserving the Lark Monophus Airways and Airways

Buckley

1295 GARDNER PUBLISHING COMPANY, Inc., Publishers CENTRAL AND RESTORAGE ROOMS 225 FOLESSE AVESES, NEW YORK

Sch-region prior: Four dislocs per year, diagly cepter Israel every Hunday: Forms close ten dops premously a year. Copyright 2006, by the Gardese Publishing

The weekly issue of AVIATION that you miss.

because you are not a regular subscriber, may content the article, news story, parties or advertisement which It soo are a Service or evalue ther AVIATION is an independent educat to your salling, became is each tricky near it publishes more service and conserved from never than appears to may morely, and more mortus, & a NEWS when a sensor in AVIATION AVIATION is written and offsed by a staff trained to the arrestantial receptor for the man who is defmonth attended or engaged in acromation. It present fully and accountry each work the local news and Descriptions, phategraphs and drawings of the latest already appear first in AVIATION and femanesty in no For less than eight cents a week-Four Dellan a year-you will receive 52 more al the order American worldy asceraft rubbication and the recommend trade authority. A LIMITED SPECIAL OFFER:

Pin a Dollar Bill to the coapee and we will uster your trail order for the past 13 inner

AVIATION - 225 4th Avenue, New York

Seed me the pest 13 wases of AVIATION. One Dailor to come a seriously



AVIATION

The Budget

THE CALL PROPERTY AND THE BERGET NAME OF WAR ASS

The Formula & Ben neen to at that they condition shall not

The second elliptical for experimental work, surveited, are

In this connection, the McCosh Field moving project can deliers that it is proceed to seed will not be much freely leady. What is needed more than anything che in American their will be extraoragence and duplication. With a stearly doednatuur common agussat this view swafton at this time will

printion has been statished by hen exilien deliver, the Air

W-- Coest Jenlousies

trair called public service commendiese.

THE look poids of some western count states and other

tered in the master of already after other. But everything that is done in anisthes in certified he someone and were-

Analysis of the 1926 Aviation Budget How the Total Availability of \$65,000,000 is to be Spent

new annually approximately so the con-

For engineering, experimental and weening over \$270.

have available for experimental work almost hall the assess

presented about that very little can be determined asset

Receow of Agreementics Torsion to the appropriations for the Navil Review of Assumation, \$24,000,000 to found to be directly communical

flort activity, being laboratories, etc. \$6,803,675 x not

The Navel Payens of Aeronastra figures are con to

shores, carbaker twenty-one engineers at salveys morar

The details of the 1935 Bullett centuring the specific up. This makes available to the Air Service for the cardinal

The conception, while it has been valued by many herefu-

Outstanding Items

are made wilder

The Air Mail

\$14,200,000, with its affectived \$2,150,000 statishis at the region or 20 corplayer in the field with draw \$250,000 are seen to the field with the contrast of the Secretary of Way, for new accordance of the Secretary of Way, for the accordance of the field accordance of the field and the field accordance of the field and the field accordance of the field accordanc

The NACA The National Advisory Consulttee for According it if It shows twesty-three departmental employees to Wadonger from a variet and continuing organization proposed for

Sumber 15, 2986 rates for special incomingations and \$15,000 for the conparty of an additional inhomatory haddens at Laurier none vising to knew how this Countilles sweets to and its ? If suffice delitre our find out clearly all the de-

Comparing the Four Rudgets Assert the four Indexts, it will be found that more one if it is to the half million dollar hadget of the where the transfer to the San Sin Stone Country of the Navel Bureau. harter. V. in figures presented in this form, no who can be described in the form, in the displantation or continuous. When it is parental? When the details being made available for with the same in advance of consideration by the Armonpublic discussion in necession of consciousness by the Appro-

That or response the method of presenting the Assarings. souther I'm lord with the detailed fureren grown on the Northale to here - ... that are now received for the environment's a process.

Led the 1 role to on equality important conclusion. Another percent a citizen dellare for existen are accitated through

other measurements. A larger properties of this sum, poolavoide I ramives without highly speculated training Contributed Presentation Needed The contract and a first from it a close opedition madelle for avoition so that the public may

Exercise is greatly encouraged by the coefficial for a smartly

public is seeded to the Government.

he fig. () he recogned by the mesons of the meson than the single-c cell mereichly possit to rock as agreey chan-

drawing \$52,550 in amounts from \$7,000 downwords. The importance, other it is celebilished, of are 120 corployees in the field who draw \$500,000. All this i foreign tital agency, such as in contemplated in the Wine-

Air Policy Suggestions No. 16, 1906, more of Avenues service discussion of the Victims 14th red the proposed National Air Policy D a better that there was questions should be mentioned

torior the Kaliscal Air Policy contains a masher of rentured - strong organizate for the Window Pall and A successor program of second development, both A received with obsequencing a national are y seasoned lopel of communical quasishment boostregime a set The Importance, other st to colodizated, of

Editor Assumes -

"It would be difficult to estimate the vales of the Overland Air Mail to this Company. The additional cost of the service is negligible when the velue of the time awed is considered. Not o day masses that we do not both sand and receive mall in this way. Already the service holds its distinct place among our vention means of commen feel is steadily grawing. STANDARD OIL COMPANY

placing all sound or presenting applications of Aeromatics to

San Francisco Cal.

September 24, 1924

to be arrived with American thought. The proceeding and

First of all-for at independent Air Service-beens rathe of many times now being dose times

creasest sal, of the light planes, so that firing will no longer

where articles in Averyon would go hig, because the Conser-

General Patrick Expresses Grave Concern Over the "Unhealthy State of the Aircraft Industry"

Annual Report of the Chief of Air Service

In Hawar. Two Artas Flying Fields, see Air Band.

No Civil Asiation Deserving of the Name

Present Personnel and Stations On July 1, 1923, there were 806 officers preventioned to

In the Pickeone Islands: Three Astron Physic Polis as Unfortunate Position of First Lieutenants Attention in arms smited by Greenel Potent to the o-

2 Properties awaiting disposal by sale Ormeland to

Solutions Proposed

Estisted Personnel

As experters step toward the convectors of the state of

Parenter 16, 1894

control to these new vacancies with a resulting increase pr month which will prove elementaring to the collect nervice -t at the efficiency strong the calleded personnel have been

of approximents to the a perpendig our Many and the dasharps by purchase and a much greater another

Was Stocks one Exhausted

a land of Fables DIT (450 ha Name Law come) paradi plants, added by versus processors, cody for shopped at

a successful rectiners to be a persistony our Many output, and subsiding them after deteriorable and disregar-

on from risks and the previous of opportunities for per- relatifient, notably decays half and training planes, to

Fasilities for Enlisted Men

Flying Codete

A total of 985 condidates was notherned to take the co-

"Courserval relation has bagged as this country. Yory few where are built and said conserveally. The Government

Sources of Renierement of resistances for Breeze Officers, i.e., the small class of

(a) That thirty-in Air Serven BOTC This to se

(h) That each met here a retractive careflored of 200 (c) That every effort he made to repair at least 25 year National Good

became of the difficulties attended name the wantle of sports. fract and the source or an encourant there or ayong transmis. Hencever, these difficulties have been largely over-

Organized Reserve On June 36, 1925, there was a total of 6,799 afferm com-

Air Service Medical Section The Air Service Medical Section in a branch of the McGoal. one senitual in the Office of the Cheef of Air Service, the School of Avertice Medium at Matchel Piols, and a reacher

not, an executive occur, assigned to duty at Acr Service

Tacoma Aire a Grisvance We who lov in Taxona office wonder at the malably of

Captain Madon Killed Cupt. Georgee Madon, one of the formest over of the the Moderlie Multanes, the Cross de George with tweety pales Gayrener, Forck and Namesoner in was applicable the most

Carry Leven in get in Tocons, as its area in all of tener wa ser would like to be excelly become and merely proport :-Name - Income Curione Emberromagy houstable." m in he referred to an near any curv E should be a cross and not Statile which is none to me. from the Color Sand on Aver- v. Military, Naval, Greiten and Commental From an accommodical point of view Thomas year creater

blace, on any way, of the world believes that Corn Inc. ment solvenedy announces that the Shrymedock and inneed solvenedy associated that the contributions would place from Taronta on the way to the mooring must at Court Land

Scattle, and when the Pathy Weekly makes a review as

vantage in rubbinity it would carry with it

anothered for the Oren and Son Dongo Thus, so for m the many partery was concerned, the Scattle trap was an exten-

Taxoner does not conv. Sensite its local mentation, but does

h n or round that a niebbeyons of the British Navy

hand in year solvery by his slopper to report on the

sames a contents of the notives of an island in the Parities remot the course of an readd in the Panta-

Name - in reposited by Assarger to give one's langue

gars of it cross Avistics and the people concerned there-

Same Mistarical Remarks

and or how or that the English speaking peoples for more

Test levis contier of the Revolution on the 19th Contary

The Why of the Visit The -- the oder, which brought one to the States a Little

is not to the angernal enter of convertingness for the afficer

Post Impressions of American Aviation

By C. G. GREY

Edward The Associate Lambo

or three teers ago. Only the expect one different

The English Air Situation Our trouble was that numediately after the Armedice next

things of International Publics. Eat there is always the

settlets on avertice in its polition to the Janatiese manage

responsible for American Aviation, both in the Services and on Berneth Aviation. And therefore there is no reason what

Speaking of the Parific

special fields of the mount and the firm to be encired in vests

We tried column to called mechanics, garage-hands, and out-of-work machinists and to furth, but they turned out to

	2011	Desember 15, 18	Exempter 15, 2704	AVIATI	10.8	1300
"An extra control of the control of	of the control of the	Section of the control of the contro	Section 1. The control of the contro	we will be a second of the control o	Concession to the Deptice of the Section of the Sec	substitute when August 1992 and 1992 an
Note: An iller seem preity we Brogs free Anal even of they di believes that their maids also who would cut from Iron the cutting month. For month of	Il betteren the flevel and the of network to madernal, men as he wended, or austine apresent and start under- fact the state of either modern ar- ce in along a memberly ar- or in along a memberly ar- or in along a memberly ar- tif missishests personal gain. the Angle Sance or Needle, it that he can mive congregion to the property of the start and the start mives congregion.	Good Steff Warh The Steff work of both Service nous equily got Strive show which and the wed blows, and from the wy which the Army market and the work and the workers of the workers.	leve forced near. One would be stoney. After a deer prive near the control of fronts and one left with respect to the control of fronts and one left with respect to the control of fronts and the contr	Washington a complete or following the management regard femporal only hadron years femporal only hadron years femporal only the second only the second only the second only the second of the second of the second of the second of the second only the second on the second of the second on the second of the second on the second of the second of the second on the second of the second on the second of the second on the second of the second of the second on the second of the second on the secon	the pathic a good show. "In the man of delatic which cost such than that a next in held than of demandals that e good showness there it is level to get a repeat cross? It is no vessel the desired and it is not contact the chain next term and I to vessel the chain next term and I	und a new acquisations relook same of the fixe- relook same of the fixe- relook, 1 think, is say an amount callets, 1 think, is say an amount of the more field they said published handled the fixer. The fixer is a second- oid because it is compily and because it is compily.

From the woods of expresses investigation that have been

Solving a Difficult Problem

Fig. 1.—Six curred all plans as they holed after n 50 fer

provided for cleaning the exchanges wer, it may still some

Many makes will recall the description what assure perhaps remarker that in test it proved sery clarity belowed the common and of adding such a do or man product its are as our strongs regard, are differ our and In fall removes labricating systems where oil a mireland to the crank-outs through dealed passages as the crankship

Results Obtained on WIA Engine

men at affected to more through with the set. How at



vice W1/A entire

Security 15, 1924 It was naturally in missees to ascertain total the ingred-

of the red of several term. The bottowing oppositions par-soning. - links were quite typical of these communitions, were level to be valetile minited—ed. 50 per send, earlies 10 per Sensing Day to Soud The second man evaluative the only material of sufficient one

and hard in to come recovery, but once the small had reased to keep out of the origins of this emphasizes the the-

The Oil Place on the WIA Engine The oil bein tries used to the Model WIA earlies in shown



Water Recovery Apparatus for ZR-3 7-Connection abstract assessed about the passing

any surfable alloy of aluminum or magnetism. The hole they are made and that of the employed. With natisfactory

Adventogre of Oil Plage



A study is strengthing-the German Albarus (75 to and crash-pin holes, there are practically no marious upon

advantageous position for myptyray of to the bearing, to supertance of which was emphasized by the water in an article assument to designation declarates of March 33, 2013 distant Affects. They remem to many features as over

The airchin Lon Angeles, the farmer 28-2, in being extended at the Lakebugat Nand Air Station with a water security spearwise shallow to that on the Shenandonh The programme of the confidentiate of submain supervise.

Incomber 15, 1024 Opinions on National Air Legislation over one of the hand and the natural relations of inmything done in the line ment be simple and free from pal expectation that as for as they ern nor most all their de-6. The guarentee of a responsible private corporation which Do We Want Government Control of Civil Aviation? in perfect of its own proposition and regards its negrow to one has roother which in probably greater than all the rest patrum at its own life as much more to be desired then that If so, What Kind? Pages evidents and the carmittee of supplex followed by T. He many Departments and because of the Government for year of expedicated "wild yet" firmg have not tended Aritle from this, we believe any other legislation would be o cale the countries of economical femalesce with a semble. Wat B ROMESTON Cory N. Lan. elements under our knowle of the Government, bended by a new responsible to the Doublest and to the tweet. When We have understood that our own legiclatures are not alangled to any form of Government appearation. Agila saler to weapen a little of the war time here worship and There is not the money to the six expects the crosset inof the pro- town strongs or accords and greecom on the part of the proconsiderant of observation or nursibary aircraft merican occur-Above all, that phase of the sir becomes which is not and enforced to have your greatest wat he common or settre of Congress with universions to begin unmediately to be directored in each modifies and recorders of the Lamon, the heater, the politican, in every part of the country Plante 3 (Subsequent Congress): Special appropriation to be arrowed the Fact Office Department in platfors to the even the granted the wave terror to perturbed in labbane to us regulate appropriation, for experimental operation, to could de-Phase & (Subrequest Congrues). Steps as the proposed relet no book for down the following premises spee, which Hoover on Commercial Aviation The amost present of the Resenters of Consessor Markows The code burnishess that we really believe to accounty at

I "Sociation before the fact" counts but he phonesical

evenued to a considerable natest, though there is remon to



here fights to a manufacture. Adventured of the stabilities in

for lumner and supplies. The first test in the functors and by, Writte Tougest (\$50) motor and having a total wing ayes, tower about Cilifornia. While she was exclusing sheet the begate of the place and its from markets ale an atel Performance and regularities of the obeas are as follows Span of lower wine, 17

Angle of heridance or who. at 1 hill road | 50 ml far Manness from agent for all for expering speed, 45 ml far Clinic per science, 10 ml far Expenses coming address to Trial III de About of experiment 12 to 5

The reducer is underlying and retracting. The leading Ones cockycle with miss windshields are fitted, norther will floor wendown. The corrysog separaty of the skey is part and

Samels (55, 1824) Form Motored Camponi Romber

facility was a salient characteristic of his previous marking Wine Structure

The ill severy ward has a since of 50 ft. S in whereas the very here a thick section it was possible to make no net extend and regard mountaing. The regard in conthe large wine commercial the larger wine corrier the effects

not to me total. The finelegy tapen toward the year until



Order decries of the new four-ordined Copred Bamber h placed in the more and another is placed under the deading

sich side a and commented by two passes of smap waren. And simplest are effected depently to both surfaces. The vertical



Power Plant The power is furnished by four 200 by SPA motors. These from the betters of the furchers to the course. There are two

Landing Gear Is sayle of the great would of the Occress-7,744 E

Regarding the Lark Monoplane

Free bading '7' ft on

getting from it house very greenlying service.

Bring tirry much occupied at the time muself, on some special despring, 2-M. Trathorn, who is no necessity shrifted pilot, was shown in fig. the plane at Winbills.

(Bullioners Stone on Print artist test) Mark of the success of the machine is due the wonderful

hate 60 to Wright notes Engineer and Tree Print Lut Mary & Arriban Co. States City Me.

LIGHT PLANES AND GLIDERS Edited by Edward T. Allen

Light Plane Development and the N.A.A.

It is now device to help to classify, if possible, through these columns the prace symbol so that the classes of rates well Flight Without Weste Leavant ands for the tree the reviews flority with low

They flicks in Marine . Nicolvert First on French and Section Sold about I and no Grander's East place on Section

December 15, 1924

people was string after gender and greater arrelysaus officency even at the superor, perhaps, of the knowledge practicability of the sport plane. Is the River ourselde of 1004 abreve all of the recoverful light planes were comment with either the 30.5 on in, A.S.C. engine or the 61.7 m, in Distributes enjoyee. Erroral researchable cross-country flates. were made here that absent took the book plans or and bonors from Abu Cohban's fight from Leaden to Branch About the same their in Regland the second byte place competition was bong held. The enterer were level landed to ter-resters having engines of 47 on an despinenting Lat

Do We Care for Efficiency?

The results of this resepensed after noth good one in a ferner terms. Suffer it to note here that the survey many

tions were automed for a very definite purpose, that is, to induce designers to utilize every effort to obtain evenior of

There are those who say that in America we do not use national effect, to the names of prince of patent recover

There is no married form \$7 on he complete lighters of these are 6 ryllader wild supposed typical being near development in the Lighted find so. These and of the formans design and understoping as yet.

The Strate-Macroschy highly place, 60x4 with an Jakan Chief materiarle conver. The day heat in 1020-21 and days during in Lout I. A Macrosolu, m n good exemple of scale-reducing a connectional exemples to a field plane The reasons of the American highly pieces to the frappage " for noise and develop condensations that offer the hand to

main across in allowing them the me of our present the val band and for the light places of the immediate future

The third alternative will probably heret a even of on-Light Plane and Glider Notes

openion exist among English hate paster realisations on to the

A room regativy flight of 350 as at an energy month of

What is a Light Plane?



The Sportland, produced by the Arithm Engineering Co.

deficitly. I seem to middle the two netter. Next one material should have it wought to 600 ft mergy and limit the lower-power in 55.
Now, as conting Mr. Marchanné's question as to what since complements; and a 30 million parties for the frequency and a 30 million and the production and the since complement; and a 30 million and the product of the frequency of a 30 million of persons on the matter and beliefs. I also expressing the retainment of operance on the exception of the person of the first first and that is the refer them those interesting. The person of the pers

Ed. 3.7—In competition with the latest limited to reading to the latest statest of the latest statest with the latest statest with the latest statest with the latest late

feetures of this step will be a very light and as on drive, permitting the case of an officent ground while developing manners homepower.

Engine Limits for Light Planes

Our of our correspondent writes us to follow:

A red for recorrespondent writes us to follow:

A red by the planes to be used in this eventual fore in order to get the light planes to be used in this eventual form our year. They do not seen to know whither the pustes simpleoned by while results the same or with the shanes of the winder of the same of the s

and our and one half letter, and the displacement for too control was two lifets, livings competitions would be able to this part and since Assessment result the advances; of and the part of the Assessment result the advances; of and should preferredly be two lates, and for two confusions, there is a lates any practical results, and for the lates, in advances any practical results, and for the choice regardly of the lates of the lates of the bloom regardly and the lates of the lates of the thorn regardly of two lates on a force late, the Indiana

R.38 Memorial Prize 1925 (Therd Year) From the leasure of the R.36 Memorial Reservic Paul, a no of break-disc sources will be affected as a row form

error on addited of the SEA Shaward Bowen's Deel, as well report response by the Birth Association Scottle, from the strength of the Birth Association Scottle, for SEA SHAWARD SEA SHAWAR

Front tennestrati Starty A segued redesing recept to such paper, in the effect that publishes a cleredy taken place and that the active will set amile it elsewhere until the Borists's recall a second or a secon

French Air Estimates

The Prevals in classics for 2018, to approve by the Princes Consumers, response 204,180,20 (recen for the Princes Consumers, response 204,180,20 (recen for the Section of the Section of the Section of 2018,180,80 (recen for the Princes of 2018,180,80 (recen for the Princes of the promoti purchased power of 2018,180,80 (recen for the princes of 2018,180,80 (recent for the princes of 2

French Air Mission to Central America. A sum-efficiel French acrossatis: ransine revolling by Mannello, Mission, wereast for Control America to untiligit across, it is composed of SMI Manders and Theory polish is to Soverin perer in Provingingenium in a Francisco a count of M. Francisco, when will endpt temporal and for the add M. Francisco, when will endpt tempographical and protein forced confidence. Revenue acrossance are the probabilist for proport confidence. Revenue acrossome are the probabilist for

AIRPORTS AND AIRWAYS

Belles (Tex.) News

The second state of the se

ler Titler arrendent Moon-Wilson Co. and the Low Control

Percentage and cross waters evaluating very even given by their Beeff Lechtwood of Prescriber, Oddy, Chao, Breick, Treefing perfect and order view statistized by Daviety and C. Pallers in cooperation with the loss and Missiand Obsert A. Daviet was consecuted with the loss and Missiand Obsert Lind weather prevented throughout the revisit and mask their conference of the statistic of the optional and and codedy arrangement of the substitute of the optional statistic and the statistic objects of the conference of the statistic objects are also as the highly interesting persistent in conference of the conference of the conference of the complete of the conference of the conference of the statistic objects and the conference of the conference of the statistic objects and the conference of the conference of the statistic objects of the conference of the conference of the statistic objects of the conference of the conference of the statistic objects of the conference of the conference of the statistic objects of the conference of the conference of the statistic objects of the conference of the conference of the statistic objects of the conference of the conference of the statistic objects of the conference of the conference of the statistic objects of the conference of the conference of the statistic objects of the conference of the conference of the statistic objects of the conference of the conference of the statistic objects of the conference of the conference of the statistic objects of the conference of the conference of the statistic objects of the conference of the conference of the statistic objects of the conference of the conference of the statistic objects of the conference of the conference of the statistic objects of the conference of the conference of the statistic objects of the conference of the conference of the conference of the statistic objects of the conference of the conference of the conference of the statistic objects of the conference of the conference of the conference of the statistic obje

general de Gall. Aus indicatonal of the Fire Northyl of the Persona. Special Deliver Pagare.

The four Prime (2) has demand sensed to the Leifer The four Prime (2) has demand sensed to the Leifer Comparison (2) has demand sensed to the Leifer School (2) has demand sensed to the Leifer Comparison of the Comparison (2) has demand as the Leifer Comparison (2) has dem

the slopt, visit and was element on the larm of the flyin Huma. On the bone porney the latte slop encountered a storage tad ward and covered 40 nm in 15 nm. The trop control should 200 m.

bring the Good Example Pod II Brillio, nonrow at large of the X A A, to our the cone exhibitants of this six travelers and be morely one as expectantly to Ω , to a place instead of taking the Ω , A = a representative another of the E loops, $\{B \in E\}$



The slave Ferrous Sport (10 by Assem), piloted by Robert Heirik, recently made a number of accountal companies defereing to a 100 cm; radius from Whitelenbo, Del.

Flying in Alaska "One over send bur near Mount McKinder, where I took

which was anisonized to Conveys on Box. a surveyor and a strengrapher, was only 300 ft. long to the that it was the slay of the United States to printe sea.

An Air Mail Service to Europe Establishment of a temporthesise per year service is unt-

Industrial as as that the appropriation that will be until



Two complex of landing "feedbase" found in Almbo-The left hand picture shows a soul law may Mt. McKnlip also Plat Was leaded in severger and a strengtopher; the right hand output shape Phis Wire and his Standard to make

water's pice, and turned out to be quite rough, as you will

The above effectedness than two broad landage facilities

new field to been, were level and much nearer to the outer Notices to Avestors No. 11 and 12 (1934), resed by the

my the establishment of an appliant service, to be operated is a French recoperary, from Maruralle to Styrin by way of

December 16, 18ts | December 16, 1966 service in Switzerland

The forcessing importance of any transportation in Europe a sanifored by a recent set of the Conneil of State of the

Caster of Detarts, Controvante, in appointing on evisions of studying ways and women of common or development of senial francost lines now teach.

waterny and moderate the present sale from deld of Construchave to come to that cuty, and to make a careful study of

Arrests Service between Marseille and Strie

New Airport for Cincinnati

fex 18 porced plane (240 fp. Peron engine) of the

her mandated terratories in Asia Mente and with other Near most the three here but a round sensor. All are plantener Baleisa Air-line Extanded to Amsterdam The Superior Assessmen Belge pour l'Explosation de Nava

fore Persons, and terrografter at Lobes. A cornection

Crackoslovsky Plana Makes World Records

Sept. 7, 1928, have been authorized as official world

Folder at the Paris Ages Show

here allowed to eshabit his products at the Paris Acro Show A New Spanish Route

Acra 12 (260 to Meshada) terr-seasy observation place at

-292098 Ion /hr

Collection of Historical Records

Air Countties in 1923

and for even, 429 flying lower there was one such and he such 4 200 favour hours there was one fetality. Attack Group Conducts Tactical Problems

The fird Artack Group, Kully Parki, Tex., second contagal

Flies Far to Spenk

Detroit-Mineri Daves to-Dunk Flight tetreit-Minnei Dawn-te-Dunk Plight (a Curd: Reginald R: Heavy (MC), det Marine Ria., Thefor Curtor Purent ships, piloted by members of de Bauls, h C., to USS Wright

Only two steps are planned, at Davice, Oho, a il Jacoby.

Naval Air Orden

Daniel 25, 2974



Country 1 and in Sweden of soundary at Headed recen-

And Charles M. Jahrens, det. U.S.S. Strengenb. to Naval Last To and P. Donnelly, det. Aircraft Sed., Buttle Ph., Last Accor E Hickoryn, det, command Nov. Aur Sta.,

Last Wilter P Der (MC), messenheted parism orders Lest Souri E. Devergoort, det. Helium Production Plant. Lest Downel P. Donnelly, down, one 10 Nov 2924 arealest. and the cury Aircraft Sopie, South Fit.

14 (gr) Ive E. Sueber, det Naval Air Sta. Personole, In Carle is H Thompson, det Noval Air Sta., Pennseo's, Die Eriph T Bran, det. Naval Air Stn., Penssools, Fin.:

in Comb. Address E. Mantgomery, det. Americk Saple. In Proc. D A. Ford, det. Neval Air Station, Pennsoyle.

An Alfred K Tapler, det USS Langley; to USS looks I've cel 23 New 1924 to USS Farendolf product Persies Static to Account

State, the heather of make more its reception, has been bened to a county in location storm areas in the frequencia they astrone and an ordinary receiving set washer chfrom et the Navel Air Station of Coco Sere, Passane Canal has, here here able to detect the approach of theaderstooms Lord Noy E. Streicher (SC), upon completes estimate to detect the approach of Stradestorms. Lord Noy E. Streicher (SC), upon completes estimate to detect the approach of Stradestorms. raths the aprending to determine the direction from which Motion of violar in the radio appearates on board Naval style.

for many voces part. The question of the unit of the store. The use of radio finds its greatest application to tropical areas where alteredly are operated, as then between at any is andressed. Another factor giving a maximum of white to this need see of radio is the regularity of the course of

static is coming. After the direction of the Ormdentoria is found to coming, paster are movemen or the beauty-area or Naval Reserves Sating

The Rosean of Nationalism assessmen that officers and uses

reference and properlyd as france; had class, as represent M. Cal. Phil L. Harnes, det. Aircraft Sol. Scine 390 used for change of swing to Fernica 2nd class. In the case,

> order duchaspes from the Navel Recover Paper under honcraftle conditions of otherwise switted to same, or they wan be releas. The will be optional with the men. Mrs who were not serving as a higher rating prior to commencement of

> who have heretefore been discharged under henomble condi-Makine Churts of Cuban Waters To continue cheet making in Cabon Waters the U.S.S.

Notemen unded from the Philadelphie Novy Yand. The Notemen, under command of Commander R. E. Braymoll in Hedroscopies Office She is to be accompassed by the tender The Nakonia will work on the northern count of Cubawhile the Haumbal, neether specially equipped surveying wanted appeared under the Hydrographic Office, will work on

The Hydrography Office also operates the surrey aread Niarara which records saided from Philadelphia to take up-

surving the scence to make these photographs, Bearing delignation the land fortiers and the coast low web thousands. ness and accuracy, the photographs are of great taken in showing up sheet spots naday water which become vanish to arplanes at residerable silitods and therefore, show on the

ANY STREE Control Establishes Company, Garden City, N. T. Street, Control Establishes Company, Garden City, N. T. Street, Control Establishes, Control Street, Control Establishes, Control Street, Control St PUBLISHER'S NEWS LETTER Devador Corbber is his mouses transmitted the Region made a material of the greater production orders for successful competitive montages to the future of American aviation products Such a change hand on a configura-CALUCATION IN LAS DISSUED TO CAY AT A Thomas Plane to Fig. at Las MEROOL OF AT ATTON CO. Co. and I from the best and the contract of the contr PORT WASHINGTON, LONG DRANG PLYING EGAT SCHOOL crustice as a affects national defence is the made tunes of War and the Navy would soon give the and suppressed. Conventioning to enough factors are placed and monotoperion. Comprises from and greened survive or particular forms for a tourised some. AND AND AND AND AND Consument business. To strengthen this endutry sirroult substry adequate for satisfied defeate. Print School De Street School Top to rev heat.

School William Street School School School School Street School Sc they should be removed. By offered the above VARNEY FLYING SCHOOL making of this typical comme statement brings up solution, it should not be assumed that AVIATION believes that the present facilities or regimerate taken are unadequate. The fact that the leading there combined Why is the asserult industry weaker than are wher substry service outlessal defence needs ? How can the "inndepency of the feedline" be property 2 Alephane Supplies colorly on Government burgers > the serious handrougo under which a labora-The real question, which concerns the depart PARTRIDGE, Inc. ESSINGTON SCHOOL OF AVIATION fing any other underly serving national defence for its emitteen, is harder to interver. But in this STATES BOATS, SEAPLANES, AND SPILLS East Chrosp, III was no process 400 h Makeur-It runed the market for a reasonably parced air Prince St. THEN TOURIES

From instructure by the hors. In the Med Print on September Al year and a system. At the Print of the printed that th matters have been exceeded by government skelley for any sircraft manufacturer to build residentian of propository arcraft have not with copenion on the thoury that the services should of the secrets industry into two rections—one to lose of war to pagadacturers reposition of the orum of a deeps. The sixcraft reductry has had The last question calls for a peneral vessely at persent conditions. A community policy, a civiling or but appropriate circles channel with reasons-

ONE WING LOS

December 35, 26 2s paneler 35, 1924

BOOKE & DAY ASSIAL ADVERTISE Your houside absolute arrests When Phone Lives Surpracy in Cy Caldeell Of his Asserted has been rived by a specials out of marin Applease Micros. Party Suppless: They and Horgers by admin St. vilking St. Ki.D. and LUNE MO.

Place a chapter seen if in the contributor's column of the Darly New New York of Non-York William "I and ridge of the wanderful propers make a mate CHAMBERLIN ROWL AIRCRAFT CORP. Acad Advantage Photography Principle Corpus and Pages Principles Transaction States and

scion to remedy this condition. As Avaction has to "civilian charged with characterists a national air policy is the Government The second resessor, as to how the madequect of faulties can be remedied, it easily sooweed It can be accomplished by turning over to the accost industry the represeledity for the design

offices who is the main have had no experience a server resolution Indeed, the successes

bility for the government's annual expenditure of this reday of strengthening its position? lurar not as competent with purely selfed referreds to some. The representative integer in the some plan cruld and should be drevard wherelin of faces competition. After all, the competition ment recovering in that of shall not that of deliver under profit as one order our be followed by conscise orders so is the practice to England

both by the government and by the substru. as

December 25, 100s

number 15, 1994



MONEER INSTRUMENT COMPANY HAT THE AND PACTORY BROOKING NEW YORK Anything I can make for you? Matel natturns Models Experimental mode

PETREL MODEL FIVE

Don't on Medals Four & Fine placity (ormited on request BUTE DALAND AERO CORPORATION FIVE PASSENCED DESCRIPTS

Francis Deplace Access he if willia species has he objects should be

G. S. IRELAND SARDEN CITY, H. Y.

OX5 STANDARDS - \$625.00 MALE FOR DELIVERY ASSESSMENT A TRUE PLONG PARCARD AN WORLD, CORTISS & LAWRENCE ENGINEER, COMPLETE STOCK CICS PARTS, RABBATORS & ACCESSORIES

TIPS & SMITH P. C. Lee Co. Class Washington Acad. Difference Toward. EDWARD P. WARNER Cambridge, Mass

THE LINCOLN STANDARD AIRCRAFT CORPORATION BETTER THAN FUEB Paragon Engineers, Inc.

LUDINGTON EXHIBITION COMPANY

Sourt Farman Shira

PAIR C. ZIMMEDMANN

DESIGNER AND CONSTRUCTOR

METAL AIRCRAFT

WANTED: A number of 20 x 4 tires and tubes. Kindly communicate with

tot War Source: FLOTE I LONAR

Office 125 Atlanta Mile

10 MAIN STREET.

Aerial Text Service

Floor from field of C. 3 Indeed

Talephone, Kennett Dil

Baltimore, Marriand

Service of the servic of the barrage of the State of

A Suggested National Air Policy

That a National Aviotion Policy is needed by the United States is obvious. To get such a policy in concrete from AMATION requested several thoughtful friends of peronentical progress to male suttentive and combractive recommendations. Some of them are given below and will be printed each meeb with ordalism, arrusions and such other changes as appear to be helpful toward the farmulation of a sound national sir policy. Renders of AVIATION and others can render an streeter service to the course of netropartical progress than contributive their exercents and

A continuing accurant of aircraft development both precempental and commercial. ex communing program or already development both governments and commercial.

A crolling, charged with championing a national air pulsey, is received in the Government. "Ceblest Annuals communicate to the House and Senate in hold average houseway taken confidences well as prevenuent Autorial consultation to the Process and Science of the Arrest security to their consultation of the Arrest Arrest Arrest Science of the Arrest Arrest Arrest Science of the Arrest Science of t An expensional staff of floor officers at the head of all everywested as defens services. Construction of all procurement and experimental average work of the poversument under one agency

Language of government manufacture to repair of arrests and specialized work that cannot be done by curves The elementum of the declination of nortal functions and furthers by government departments. are executive we see organization of actual functions not received by povernous departments.

A country wide Air Mail system of trusk lines connecting that principal cities of the country. "References for

A rational asyrait law that will regulate aviation, administrated by practical pilots and assessment assessment of COMMERCIAL AIRCRAFT OPERATION

counting on Expert do Corpe among flying mee all over the country by frequent gatherings at artistion meets. *A continuing argumentum, including representatives of all important points of wire in accountion, for the INDUSTRIAL AIRCRAFT CONSTRUCTION. Recognition that a sound acromatical reductry to a prima accountry of our National Defense.

Expansional of the designing of new yors of according to manufacturer by allowing them to reises their Concentration of meautacoming ficus on specialized types of army and many siverals. *When production demoney are recey. Encouragement of research by construction, universities and other agencies as well as by the government.

CIVILIAN

Facons report of conficiences by private companies in approxit races and competitores

Encouragement of the treasury of prints by cryates schools

*Engrated change

A extend arrested constation compared of public stated citizen that will take a stress sention of inducible on retornal accountrial policy. "Unification of all accountrial organization rate and entered or An Armal Aviation Wesk during which the country will think of social progress. "52 such weeks. The formation of local arre clubs by fisce for the purpose of standaling fixing to all localities. Encouraging the public to fly and patronics the air small and transport building.

*The miningament of plaint and serving contests, especially interoblished

*Co-ordination of the assessed experimental development of the government feering procurement to the normal for our most pitch.

Establishment of a National Auroray System through cooperation of the Federal Government with States and

ra Reinge St.

With Friends or Liberty Morrow. Leading most at outer per YACKEY AIRCRAFT CO.

Considered in Aeronautical Entireering Coonercial Operation of Aircraft. Mass. Institute of Technology

Describer 15, tax Ausber 15, 2924

AIRCRAFT SERVICE DIRECTORY CONTINUED

The Highest Grade of New Flying Boats of 1452L Type on the Market The first of the f

CRICGON AIRCRAFT CIMITAR THE MORE ST E. TORONTO, CANADIA

LIBERTY "12" AVIATION ENGINE PARTS

CANUCK and JN planes CCE. DOOR and Liberty motors Special State Ohn masses, and therein his matrix has greated \$100.000 and the state of the state

R.E.L.A.N.C.A.

ASSESSED RESPECTATE DESPENSES AND TOOLS ARE CARRIED IN OUR STOCK IOHNSON MOTOR PRODUCTS INC. CLASSIFIED ADVERTISING

PLYWOOD Water Resistant Panels FOR NALE Asset 50 by vs. climber out-of are, 425.00 New York JLL AVEATION Made According to Government Specifications

Any Size or Thickness Paterson, N. J., U.S.A.

bene Grand P Vanie 20 11. 1412 Vani Klade Wash Co., J. W 1412 Vanie Artenante of Corp. 1988 laby terroit Co., 146 Demonster Post O.

man derplan & Supply Co. 1489 offic Finite-results 1488 160 J 1 1111 1111 1111 1111 1111 1111

INDEX TO ADVERTISERS

on Anna R. Edd . . .

er which showed that the are of Today the whole world is beginning to realize that for mail-fast freight or exceess the heat built flying machipes are as practical as the Ocean

The Trail Blazers

I UST a few years ago, a Martin Bomber made the complete circuit of the United States without serious delay. At the time this was a record-break.

long distance fluing was here. Recently a small squadron of Amerscan flyers finished a spectacular and

Liner or the Transcontinental Rail-

THE GLENN L. MARTIN COMPANY

CLEVELAND, OHIO Builders of Quality Alvertal since 1909 1650 00

500.00

new and make



or the Speed and Effective Economics Companyed Plans at

CONVINCING EVIDENCE OF ITS EAST OF CONTROL LOW MAINTENANCE COST

Servel Range Name Balton Atmand or a Nillian Com-\$3,500 at Wiebite West for Additional Information The Swallow Airplane Mfg. Co. Wichita, Kanasa

Visco thelle 450 Pers St. Laplaces, Paleston, No. G & Artisl Transportation Dra-

on more than 10,000 about

med all over the world

to the principle of the following streets.

M. BOELEVARD SOCROO ETARLISSEMENTS LAMBLIN MEDILATION DIESE

DOPES PIGMENTED DOPES VARNISHES

Cortice INAD to control costs Curio IN4D used excellent condition Curtain 3 pass, semi-value OX5 motor used

Curion 3 pass, sexu-cubus OXX6 motor

Curtan Carriel used, excellent condition, all

These phases are presed for monodate sub-re-mitjest to change to prove unthour motion. A deposit will hold any of these planes 20 days. I planes can be interested at our Daylon Field.

JOHNSON AIRPLANE & SUPPLY CO.

DAYTON, OHIO

Largest Dealers in Arrenautical Ecosyment to the Country Wree for our Lister Issue of Special Price Loss Stating What Yes Arr Chally Internand in

ENAMETS *TITANINE

TITANINE Inc. UNION, UNION COUNTY, N. A. SHOCK ABSORBER CORD

Principle Produces of Cord for Constant and U. S. Germannett James the World West. Fully Emproof for the Largest Resolutions of

Arr Erectoratel Tack. WOOD FLASTIC WES CO

The articles that you have published in recent mouths under the bearing of "Links Places and Gleders" have been intensely interesting AVIATION is giving its renders what they went. Week by week the real technical information and news of flying, written by aeronautical engineers and

Read what one of them says in a recent letter to the publisher.

fiers. Detailed descriptions and photographs of the latest machines which appear in no other publication.

livest Four Dollars for a year's subscription with our guarantee, backed by thousands of readers who fourformation you need and can use to advantage.







"THE BEST INVESTMENT" The opinions of the readers of AVIATION are its heat adverturement I take great pleasure in forwarding herewith my check to cover my pulscention to AVIATION for the ensuing year I consider this THE BEST IN.



BOEING PURSUIT

Recognized by Military Services as the Finest Single Seater Fighter in the World

The ORIGINAL combination of:

An Underslung Sloping Core Radiator:

A Small Body properly arranged;

A Semi-thick Airfoil Section of True Contour throughout the entire length of both the Small Elliptical Lower Wing and the Larger Tapered Upper Wing:

A Single Bay Biplane with external brace wires in Front Truss Only:

An ideal proportioning of Unbalanced Control Surfaces, giving unprecedented ease and range of control.

DESIGNED IN THE YEAR 1922: PRODUCED AND FLOWN EARLY IN THE YEAR 1923

BOEING AIRPLANE COMPANY SEATTLE, WASHINGTON

